

## TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES Quezon City

## 2018 CURRICULUM FOR BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSIE)

IMPORTANT: Registration in any course/s without all the pre-requisite/s, correct sequence and authorized load shall not be given any credit regardless of the grade/s obtained.

NAME : \_\_\_\_\_\_STUDENT NO : \_\_\_\_\_

COURS	E CODE	DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISIT
FIRST YEAR,	FIRST SEM	ESTER (18 UNITS)				
MATH	016	Calculus 1	3	0	3	
CHEM	001C	Chemistry for Engineers	3	3	4	
GEC	001	Understanding the Self	3	0	3	
GEC	005	Purposive Communication	3	0	3	
MATH	006	Discrete Mathematics	3	0	3	
PE	001	Physical Education 1	2	0	2	
NSTP	001	National Service Training Program 1	(3)	0	(3)	
		TOTAL	17	3	18	
FIRST YEAR,	SECOND S	EMESTER ( 21 UNITS )				
MATH	017	Calculus 2	3	0	3	MATH 016(P)
PHYS	001C	Calculus-Based Physics	3	3	4	MATH 017(C)
IE	004	Statistical Concepts, Theories and Analysis for Industrial Engineering 1	3	0	3	
GEC	004	Mathematics in the Modern World	3	0	3	
GEE	001	General Education Elective 1	3	0	3	
SOCSC	006	Principles of Economics	3	0	3	
PE	002	Physical Education 2	2	0	2	PE 001(P)
NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001(P)
		TOTAL	20	3	21	
SECOND YE	AR, FIRST S	EMESTER ( 25 UNITS )		-		
IE	302	Industrial Materials and Processes	2	3	3	PHYS 001C(P)
ITE	001A	Computer Fundamentals and Programming	0	6	2	
MECH	001	Engineering Mechanics	3	0	3	PHYS 001C(P)
SOCSC	005	Life and Works of Rizal	3	0	3	
IE	005	Statistical Concepts, Theories and Analysis for Industrial Engineering 2	2	3	3	IE 004(P)
ΙΕ	006	Strategic and Industrial Organization Management	3	0	3	2nd Year Standing
MATH	010	Differential Equations	3	0	3	MATH 017(P)
GEE	002	General Education Elective 2	3	0	3	
PE	003	Physical Education 3	2	0	2	PE 001(P)
		TOTAL	21	12	25	
SECOND YE	AR, SECONE	O SEMESTER ( 25 UNITS )				
IE	014	Advanced Mathematics for Industrial Engineering	3	0	3	MATH 010(P)
MATH	013	Linear Algebra with MATLAB	2	3	3	MATH 016(P)
CPE	003	Computer-Aided Drafting	0	3	1	
IE	007	Work Study and Measurement/Productivity Analysis	3	3	4	IE 005(P) IE 006(P) IE 302(P)
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	2nd Year Standing
	004	Financial Accounting	3	0	3	SOCSC 006(P)
AC	008	Industrial and Organizational Psychology	3	0	3	2nd Year Standing
AC IE			3	0	3	
	003	General Education Elective 3				
IE			2	0	2	PE 001(P)
IE GEE	003	Physical Education 4	2			PE 001(P)
IE GEE PE	003 004	Physical Education 4 TOTAL	-	0 <b>9</b>	2 <b>25</b>	PE 001(P)
IE GEE PE THIRD YEAR	003 004 , FIRST SEM	Physical Education 4  TOTAL IESTER ( 24 UNITS )	2 <b>22</b>	9	25	PE 001(P)
IE GEE PE THIRD YEAR GEC	003 004 , FIRST SEM	Physical Education 4  TOTAL  IESTER ( 24 UNITS )  Readings in Philippine History	2 22 3	9	<b>25</b>	
IE GEE PE THIRD YEAR	003 004 , FIRST SEM	Physical Education 4  TOTAL IESTER ( 24 UNITS )	2 <b>22</b>	9	25	IE 014(P) MATH 013(P) IE 007(P) IE 008(P)



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COURS	E CODE	DESCRIPTIVE TITLE	HOURS	HOURS	UNITS	PRE-REQUISITE(S)/CO-REQUISI
ME	004	Thermodynamics	3	0	3	MATH 017(P) PHYS 001C(P)
ME	005	Engineering Economics	3	0	3	3rd Year Standing
AC	005	Managerial Accounting	3	0	3	AC 004(P)
IE ELEC	1	IE Elective 1	3	0	3	See track for pre-requisite(s)
		TOTAL	22	6	24	
		EMESTER ( 25 UNITS )	1			1
GEC	006	Art Appreciation	3	0	3	
GEC	003	The Contemporary World	3	0	3	
EE	001	Basic Electrical Engineering	2	3	3	PHYS 001C(P)
IE	010	Ergonomics 2: Work Design	2	3	3	IE 009(P)
ΙΕ	404A	Operations Research 2: Stochastic Approach with Simulation	2	3	3	IE 003A(P) MATH 006(P)
ΙE	405	Project Feasibility	2	3	3	AC 005(P) ME 005(P)
ΙE	011	Production and Operations Management with Industry Software Applications	3	3	4	IE 003A(P) IE 304(P) IE 404A(C)
IE ELEC	2	IE Elective 2	3	0	3	See track for pre-requisite(s)
	•	TOTAL	20	15	25	
OURTH YEA	AR, FIRST SI	EMESTER ( 24 UNITS )				
ENVI	001A	Environmental Science	3	0	3	4th Year Standing
GEC	008	Ethics	3	0	3	
ΙE	505	Systems Engineering	3	0	3	IE 011(P)
ΙE	504	Multi-Criteria Decision Making	3	0	3	IE 404A(P)
ΙE	018	IE Design Project1	2	3	3	4th Year Standing,IE 504(C)
GEC	007	Science, Technology and Society	3	0	3	
ΙE	501	Undergraduate Research for IE	1	6	3	IE 005(P) IE 011(P)
IE ELEC	3	IE Elective 3	3	0	3	See track for pre-requisite(s)
		TOTAL	21	9	24	
OURTH YEA	AR, SECOND	SEMESTER (18 UNITS)				
IE	017	On-the-Job Training for IE	0	240	2	4th Year Standing
BOSH	101	Basic Occupational Safety and Health	3	0	3	4th Year Standing
IE	012	Seminar/Coloquia for IE	0	3	1	IE 501(P)
IS	001	Information Systems	3	0	3	IE 013(C)
IE	013	Supply Chain Management	3	0	3	4th Year Standing,IE 011(P)
IE	019	IE Design Project 2	1	6	3	Graduating IE 018(P)
IE	015	Industrial Engineering Values and Ethics	3	0	3	Graduating
		TOTAL	13	249	18	
ELECTIVE C						
	<del>`</del>	anization and Decision Systems)			_	l
IE-E1	408	Project Management	3	0	3	IE 003A(C) TECH 101(P)
IE-E2	573	Risk Management	3	0	3	IE 304(P)
IE-E3	016	Special Topics and Problems in IE	3	0	3	IE 011(P)
FBACK ELEC	TIVE 2 (Tag	TOTAL hnopreneurship)	9	0	9	
TECH	102	Technopreneurship 2	3	0	3	TECH 101(P)
TECH	102	Technopreneurship 3	3	0	3	TECH 101(P)
TECH	103	Technopreneurship 4	3	0	3	TECH 102(P)
IEUM	104	TOTAL	9	0	9	1 LOTT 100(F)
TRACK ELEC	TIVE 3 (Pail	way Engineering)				l .
RWE	001	Introduction to Railway Systems and Engineering	3	0	3	
RWE	023	Railway Management, Governance and Operations	3	0	3	RWE 001(P)
RWE	023	Advanced Topic on Railway Engineering	3	0	3	RWE 001(P)
IXVVE	L 004		9	0	9	INVVE UZU(I )
		TOTAL			9	l



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CPE	311	Computational Thinking with Python	2	3	3	IE 005(P) MATH 013(P)
CPE	312	Predictive Analytics using Machine Learning	2	3	3	CPE 311(P)
CPE	313	Advanced Machine Learning and Deep Learning	2	3	3	CPE 312(P)
		TOTAL	6	9	9	

CREDENTIALS PRESENTED:	DEFICIENCY/IES:	Evaluated By:	LEGEND
() F137A () NSO Birth Certificate		Date:	P = Pre-requisite
() F138 () HD		Received By:	C = Co-requisite
() GMC () TOR		Date:	

NOTE: EVALUATION IS TENTATIVE AND MAY BE REVISED FOR SOME VALID CAUSES OR REASONS OR IF OMISSIONS AND/OR LACK OF UNITS CREDITED BE DISCOVERED LATER.